



Climate change, enhanced greenhouse gas emissions and passenger transport - What can we do to make a difference?

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Abstract:

The transportation sector, led by the automobile, has been cited constantly as a major contributor through human intervention to climate change. Short of banning car use, the challenge remains one of understanding better what mix of actions might contribute in non-marginal ways to reducing the growth of greenhouse gas emissions and the absolute amount of CO₂ produced by automobiles. This Paper evaluates instruments aimed at a number of policy objectives linked to efficiency, sustainability and equity, focusing on Oil Social Surplus gains in addition to cost effectiveness; but in particular the ability to reduce CO₂. TRESIS, an integrated transport, land use and environmental strategy impact simulation program, is used to assess the influence CO₂ of a number of 'at source' and 'mitigation' instruments such as improvements in fuel efficiency, a carbon tax, variable user charges, and improvements in public transit. TRESIS is applied to the Sydney metropolitan area with instruments enacted in 2010 up to 2015.

Source: <http://dx.doi.org/10.1016/j.trd.2007.12.003>

Resource Description

Exposure : ☒

weather or climate related pathway by which climate change affects health

Unspecified Exposure

Geographic Feature: ☒

resource focuses on specific type of geography

None or Unspecified

Geographic Location: ☒

resource focuses on specific location

Non-United States

Non-United States: Australasia

Health Impact: ☒

specification of health effect or disease related to climate change exposure

Climate Change and Human Health Literature Portal

Health Outcome Unspecified

Mitigation/Adaptation:

mitigation or adaptation strategy is a focus of resource

Mitigation

Model/Methodology:

type of model used or methodology development is a focus of resource

Cost/Economic, Exposure Change Prediction

Resource Type:

format or standard characteristic of resource

Policy/Opinion

Socioeconomic Scenario: Other Socioeconomic Scenario

Other Socioeconomic Scenario: GHG mitigating policy scenarios

Timescale:

time period studied

Short-Term (